## LIST OF FIGURES

Figure No.	Description	Page No.
Chapter 1		
Figure 1.1	'Let's Make Faces': An educational activity at National Museum, New Delhi	58
Chapter 2	- <b>·</b> · · · · ·	
Figure 2.1	'Hello Hubmarine' a booklet of short stories, Museum and Art	96
	Gallery (MAG), Derby Museums	
Figure 2.2a	Painting' session (Sunday Art Classes), Ngma, New Delhi	97
Figure 2.2b	'Model Drawing and Sketching' session (Sunday Art Classes), Ngma, New Delhi	98
Figure 2.2c	'Sketching and Painting with Still Life and Composition Drawing' session, (Sunday Art Classes), Ngma, New Delhi	98
Figure 2.3	Children creating musical composition in the 'Music room', Horniman Museum and Gardens, London	100
Figure 2.4	'Fort Building Competition', an annual activity, The Maharaja Fatehsinh Museum, Vadodara	102
Figure 2.5	An adult scaffolding information to assist the child solve the activity book, National Museum, New Delhi	109
Chapter 3	- <b>·</b> · · · · ·	
Figure 3.1	'Memory' in the 'Human Biology' exhibition, Natural History Museum, London	126
Figure 3.2	Exhibit on African Art, National Museum of African Art, Washington D.C.	128
Figure 3.3	An illustration showing conversation between a mother and a child	129
Figure 3.4	An exhibit in the children's Museum, Brooklyn	135
Figure 3.5a	A 'Feely Bags'	140
Figure 3.5b	College students exploring the contents in the feely bags	141
Figure 3.6	Household trash for 'Trash-bin' game	143
Figure 3.7a	Original image of Siva 'Vinadhara'	145
Figure 3.7b	A divided image of Siva 'Vinadhara'	145
Figure 3.7c	Jumbled strips of sculptures including Siva 'Vinadhara'	146
Figure 3.8a	Ancient coins for classification	147
Figure 3.8b	Mix archaeological materials for classification	147
Figure 3.9	A hunting scene for 'Memory game'	149
Figure 3.10a	Conjectural image of a prehistoric cave	150
Figure 3.10b	Modified image of the prehistoric cave	151
Figure 3.11a	An assortment of museum objects for the 'Conservation Game'	153
Figure 3.11b	Step 1—Unaware of the intent and purpose of the game, children freely handling and exploring materials	154
Figure 3.11c	Step 2—Children wearing hand gloves, observe and identifying the changes after handling through a magnifying lens	154

Figure: 3.11d	Step 3—Children being explained the importance of safe handling and significance of wearing gloves to avoid deterioration, with supportive examples	155
Figure 3.12	Children trying to understand the concept of aging and deterioration through a set of photographs of a child since birth till grown up, in relation to their own life	156
Figure 3.13a	An image of a painting carrying an array of conservation problems (source: Doshi, 1995)	158
Figure 3.13b	Activity sheet with the corresponding image of conservation problems for identification and matching (level one: 5–7 year olds)	159
Figure 3.13c	Activity sheet with names of the conservation problems with their factors of deterioration, for matching and recognition (level two: 8–10 year olds)	160
Figure 3. 13d	Children solving the activity sheet	161
Figure 3.14	A reference image of a sculpture (Shiva 'Vinadhara') with encircled areas showing restored and missing parts (Source: 'Museum', Department of Museology, M.S.University of Baroda)	162
Figure 3.15a	An image of a Harappan pot for designing the 'pattern making' exercise	164
Figure 3.15b	The variety of activity sheets created from image of the Harappan pot	165
Figure 3.15c	Children performing the 'Pattern Making' exercise	165
Figure 3.16a	Mrs Perkins interacting with children before the guided tour, Apsley House, London	171
Figure 3.16b	Mrs Perkins showing children the various areas in the house and explaining them their jobs, Apsley House, London	172
Figure 3.17	Marc Spiegel enacting as Einstein, Discovery Theatre, Smithsonian Institute	175
Figure 3.18	A story telling session at the 'Kahaani Karnival 2015' Bhau Daji Lad Museum, Mumbai	184
Figure 3.19a	A descriptive catalogue revealing stories hidden in objects, Nottingham Castle Museum, Nottingham, UK	185
Figure 3.19b	'Every Object Tells a Story' Gallery, Nottingham Castle Museum, Nottingham, UK	186
Figure 3.20	An educator in period costumes demonstrating the process of embroidery	193
Figure 3.21	An archaeologist showing the process of flint tool making	193
Figure 3.22	An artist showing the process of making Pahari Miniature Paintings CSMVS, Mumbai	194
Figure 3.23	Demonstration area in the exhibition gallery of Air and Space Museum, Smithsonian Institute, Washington D.C.	194

Chapter 4		
Figures 4.1a and	'A Day at the Museum', National Museum, New Delhi	224
4.1b	(Courtesy: National Museum)	
Figure 4.2	'Yuva Saathi' programme, National Museum, New Delhi (Courtesy:	225
	National Museum)	
Figure 4.3	'Flow School Programme', Crafts Museum, New Delhi	228
Figure 4.4a	Entrance to the Discovery and Activity room, National Museum of	232
C	Natural History, New Delhi	
Figure 4.4b	Interior view of the Discovery and Activity room, National	233
C	Museum of Natural History, New Delhi	
Figure 4.5 a and	Lack of ergonomically designed furniture for children in museums	243
b		
Figure 4.6	Curator, Metro Museum, giving a talk to the participants of 'Can	244
6	Kids Kids Can' activity which reveals large age bracket and group	
	size	
Figure 4.7	Large group size, Metro Museum	245
Figure 4.8	Large group size, Maharaja Fatehsinh Museum, Vadodara	245
Figure 4.9	Large group size, CRC Museum, New Delhi	246
Figure 4.10	An inaugural function of honouring guests and dignitaries as a start	280
8	to the educational activities	
Figure 4.11a	A child receiving prize for her painting	280
Figure 4.11 b	The group of prize winners proudly sharing their certificates of	281
1 iguie 4.11 0	achievement	201
Chapter 5	achievenient	
Figure 5.1	A child enacting a story using hand-puppets, 'Frank Bradley's Toy	289
I Iguie 5.1	Theatre', Pickford's House	207
Figure 5.2	Visitors enjoying the performance, Pickford's House	289
Figure 5.3	The Derby Silk Mill, Derby Museums	290
Figure 5.4a	Italian Works, original five storey building with Stair Tower;	290
Tigure 5.4a	Bridge and Doubling Shop. Photograph by R Keene, 1884	272
	(DBYMU collection L4304) (Courtesy: Derby Museums)	
Figure 5.4b	Italian Works, altered three storey building with Stair Tower.	292
I Iguie 5.40	Photograph by Frank Nixon, December 1963 (DBYMU collection	
	P271/7) (Courtesy: Derby Museums)	
Figure 5.4c	Silk Mill Gates, which still exist. n.d. (c1890?) (DBYMU collection	293
riguie 5. ie	L483), (Courtesy, Derby Museums)	275
Figure 5.5	'Hub', where mill's collection is processed and documented openly	295
Tigure 5.5	in public presence	275
Figure 5.6	'The Maker Bar', a mobile portable laboratory that offers a menu of	296
Tigure 5.0	choices of activities to children	270
Figure 5.7	'Making Our Stories', a space where visitors can share their own	297
1 15010 5.7	stories inspired by the creative journeys of eight makers	271
Figure 5.8	'Art of Artefacts', a space that encourages visitors to come up with	299
1 izure 5.0	a personalised style of displaying museum collection	<i></i>
Figure 5.9	'Institute of STEAM (IOS)', a technical learning space based on the	300
11guie 3.7	concept of STEAM (iOS); a technical learning space based on the	500
	concept of STEAM learning	

Figure 5.10	'Architecture Explorer', a learning programme for school children at The Silk Mill, Derby Museums	302
Eigung 5 11	•	204
Figure 5.11	'University Students—Early Years', a learning programme for University Students at The Silk Mill	304
Figure 5.12	Exhibit labels containing visitor's thoughts in small point size,	309
-	Nottingham Castle Museum, UK	
Figure 5.13	Inputs generated during an 'Ideation Session', Derby Museums	312
Figure 5.14	An empathy map, a tool employed during 'Co-production', Derby	313
0	Museums	
Figure 5.15a	A six year old's drawing included in the Beetle case, NNFJ,	316
-	(Courtesy: Derby Museums)	
Figure 5.15b	Preparation of the Beetle case, NNFJ, Derby Museums, UK	316
	(Courtesy: Derby Museums)	
Figure 5.16	Forest of Birds, NNFJ, Derby Museums (Courtesy: Derby	317
	Museums)	
Figure 5.17 a	Concept of step stools, NNFJ, Derby Museums	317
Figure 5.17 b	Step stools, NNFJ, Derby Museums	318
Figure 5.17 c	A child on a step stool, NNFJ, Derby Museums	318
Figure 5.18	Riddle Wings, NNFJ Gallery, Derby Museums	318
Figure 5.19 a	'Buy a Bird' – Public vote for a nature mascot, Notice Nature Feel	319
-	Joy Gallery, Derby Museums	
Figure 5.19 b	Staircase wall of MAG that supports 'Buy a Bird' campaign	319
Figure 5.20	'Maker Bar'—one of the five interactive zones at Silk Mill, offering	322
	a range of craft activities in the 'Maker Bar Menu' for children to	
	choose from, Derby Museums	
Figure 5.21	Children colouring the bird activity sheet and making a 'take-away'	325
	3-D bird, 'Birds in the sky', 'Tots Make and Do', MAG, Derby	
	Museums	
Figure 5.22	'STEAM Tots', based on 'Loose Parts, at the Silk Mill	326
Figure 5.23	'Family Fridays', inspired by the elements of the paintings by Joseph	328
-	Wright, MAG	
Figure 5.24	Bug Hunt, an annual favourite, Pickford's House	329
Figure 5.25	'Meet the Beast', another favourite, MAG	329
Figure 5.26a	'Enchanted Garden', a multi-session programme, Pickford's House	331
Figure 5.26b	A final ensemble of the 'Enchanted Garden', Pickford's House	331
Figure 5.27	'Pre-Neets' workshop where the participants are learning to make a	334
-	'screwdriver', IOS (workshop), Silk Mill	
Figure 5.28a	First introductory session—in one of the exhibition galleries, a live	355
	interpreter tells pupils about Egypt and its culture	
Figure 5.28b	Second part of the session-children visit the museum's mummy	356
	section to see real mummies and learn about mummification	
Figure 5.28c	Third part of the session—children dress-up in traditional costumes	356
	to attend the funeral and perform mummification	
Figure 5.28d	Children performing mummification	357

Figure 5.28e	Last part of the session when pupils make their own Shabti clay	357
	models as a take-away of their museum visit	
Figure 5.29a	First introductory session where pupils get introduced to the	358
	meaning, formation and types of rocks and fossils	
Figure 5.29b	After an introduction, children handle, examine and record the	358
	various	
	physical characteristics of rock specimens	
Figure 5.29c	Children visit the NNFJ gallery to see a variety of geological	359
and d	specimens on display	
Figure 5.29 e	The last part of the session in the activity room where children dig	360
and f	out fossil samples and take their imprints	
Figure 5.30	The group of volunteers being briefed at the Silk Mill before the	363
-	FIGMENT, a community festival	
Figure 5.31 a	First introductory session in the activity room (Perfect Patterns)	368
Figure 5.31 b	Second session, in front of the 'Picnic tile', Islamic Middle East	369
and c:	Galleries; pupils learn to create designs using motifs from the tile	
	and other objects on display	
Figure 5.31 d:	The third part of the session in the activity room; children making	370
-	collage to incorporate into their designs	
Figure 5.31 e	Children digitalise their designs using a computer app on iPad	370
Figure 5.32 a	The 'Hands-on Base', Horniman Museums and Gardens	372
and b	,	
Figure 5.32 c	Some of the handling collections on display in the 'Hands-on Base'	373
Figure 5.33	'Nature base', Horniman Museums and Gardens	373
Figure 5.34	'Summerly Room' (lunch room), Museum of Childhood	374
Figure 5.35	Mulberry and Hickory rooms, Museum of Childhood	375
Figure 5.36 a	A storytelling session in the 'Art Smart Area', , Museum of Childhood	375
Figure 5.36 b	A family activity in the 'Art Smart Area', , Museum of Childhood	376
Figure 5.37 a	Foyer area near the entrance, V&A Museum of Childhood	376
Figure 5.37 b	Life-size games for families at the foyer area (5.37 a) and in the opposite lawns (5.37 b), inspired by the temporary exhibition—'Board Games', V&A Museum of Childhood	377
Figure 5.38 a	Extended learning sessions in the reception area during the October	378–
and b	Half-term holidays (2016) V&A	379
Figure 5.39 a	'The John Madejiski Garden', used for family activities during summers and half-term holidays. The space holds an art installation—'Elytra'	380
Figure 5.39 b	'The John Madejiski Garden Cafe'	381
Figure 5.40	Handling objects, 'Ancient Egypt' school session, Horniman Museum	382
Figure 5.41	Canopy jars used as handling objects for 'Secret of the Mummies', Derby Museums	383
Figure 5.42	I pads for the 'Digital Kids', V&A	384

Figure 5.43	Children wear props and become game pieces during a learning session, 'Board Game Exhibition', V&A Museum of Childhood	385
Figure 5.44	Discarded old material for 'Make-it Fashion', V&A	385
Figure 5.45 a:	Beginning in the South Asian galleries, pupils learn about the story behind the Tipu's tiger, how it reached the Britain and then the V&A, and about Indian culture and traditions, through role-play activities	396
Figure 5.45 b	Children travel to the Islamic galleries, study the 'Picnic Tile and Ardabil Carpet'; the motifs and the stories behind them, and the Chinese influence in their design	396
Figure 5.45 c:	Again through a role-play activity, children learn about Chinese robes worn by the Emperors and Empresses; about the dragons and animal motifs the decorated the robes and their meanings and significance	397
Figure 5.45 d	A brief interactive follow-up session at the end between the children and the facilitator	397
Figure 5.46	A school session at the V&A Museum of Childhood displaying a maximum standard group size of 30 children	400
Figure 5. 47	'Animal Agent', family back-pack, V&A	402
Figure 5. 48	'Curious Ceramics'—specially designed for the visually challenged children, family back-pack, V&A	402
Figure 5.49 a–f	Some contents of the 'Magic Glasses', family back-pack, V&A	403– 404
Figure 5.50	'Lollipop Isle', the actual sculpture in the V&A's glass gallery and the inspiration behind the back–pack—'Magic Glasses'	404
Figures 5.51 a-d	'Moving Toys'—some contents of the learning kit, V&A Museum of Childhood	405
Figures 5.52 a and b	Children assisted by the OPA's and accompanying adults, create their songs of revolution inspired by the V&A theme— 'You say	407– 408
Figure 5. 53 a:	you want a revolution?' Parents and facilitator assisting children to perform the tasks involved in the 'Make it Fashion' workshop, V&A	408
Figure 5.53 b	Children flaunting their designer creations—'Make it Fashion', V&A	409